

# 21167 - LRRIG AC IP66 Repeater with 2 Relays (5A) for Contactors

Revision: 03 | Creation Date: 2026-02-26 | Revision Date: 2026-08-06



## Model: 21167 | LRRIG



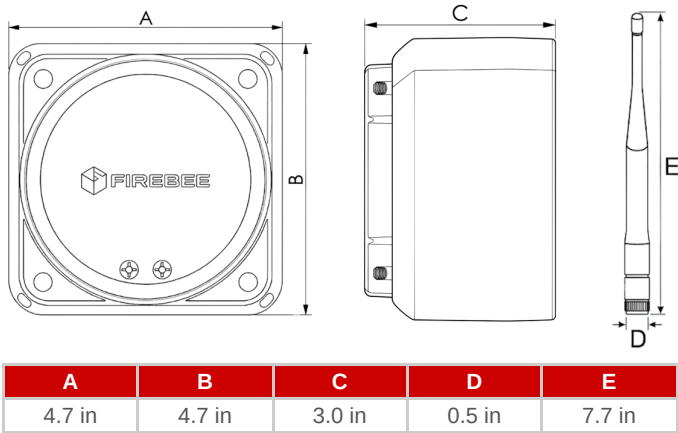
### Application

The Module with 2 Relays activates contactors and power equipment upon receiving alarm signals from the control panel. It also functions as a repeater, retransmitting signals between field devices and the alarm control panel. Suitable for indoor and outdoor use (IP66).

### Operation

Upon receiving an alarm signal from the control panel, the device immediately activates its relay outputs.

### Dimensions



### Standard Features

- Wireless protocol — 2.4 GHz, ISM band (Industrial, Scientific and Medical).
- AC power supply (100/240 VAC) with internal Li-Ion backup battery.
- IP66 ingress protection — suitable for indoor and outdoor installation.
- 128-bit AES encryption; restricted to enrolled installation unit.
- Communication range: up to 120 m indoor and up to 1,500 m outdoor (line of sight).
- Tamper detection: removal alert at control panel within 2 seconds.
- Low-battery alert and level indication at the control panel.
- Equipment fault indication at the Fire Detection and Alarm Panel within 5 minutes.
- Internal battery estimated lifespan of 24 months as specified by the manufacturer; after this period, capacity may decrease — preventive inspection is recommended.

### Product Certifications:



### Specifications

| ENVIRONMENTAL CHARACTERISTICS |                                    |
|-------------------------------|------------------------------------|
| Ingress Protection            | IP66                               |
| Operating temperature         | -10 to 55 °C                       |
| Storage temperature           | 0 to 40 °C                         |
| Relative humidity             | 10% to 95%                         |
| ELECTRICAL CHARACTERISTICS    |                                    |
| Power supply                  | 100/240 VAC (dual-voltage), 8.60 W |
| Normal operation current      | ≤ 50 mA                            |
| Triggering current            | ≤ 80 mA                            |
| BATTERY                       |                                    |
| Type                          | Li-Ion 3.7 V, 2,200 mAh            |
| Charging time                 | ≤ 12 hours                         |
| Battery autonomy              | ≥ 30 h (relays off)                |

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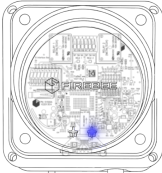
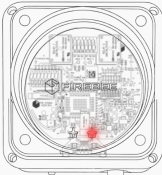
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## Specifications

| DIMENSIONS                    |                       |
|-------------------------------|-----------------------|
| Body (A × B × C)              | 4.7 × 4.7 × 3.0 in    |
| Antenna (E × D × D)           | 7.7 × 0.5 × 0.5 in    |
| Weight                        | 560 g                 |
| RADIO FREQUENCY — 802.15.4    |                       |
| Operating channels            | 11 to 26 (default 26) |
| Network encryption            | AES 128-bit           |
| Data transfer rate            | 256 kbps              |
| Modulation                    | O-QPSK                |
| Antenna gain                  | 5 dBi                 |
| TX power                      | ≤ 20 dBm              |
| Sensitivity                   | -102 dBm              |
| Antenna type                  | External              |
| Indoor range                  | 120 m                 |
| Outdoor range (line of sight) | 1,500 m               |
| Standard                      | 802.15.4              |

## LED Indicators

| LED                                                                                  | State                             | Description                                                                                              |
|--------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------|
|    | <b>Green</b><br>Operational       | Green LED flashing — device operational.                                                                 |
|    | <b>Blue</b><br>Signal<br>Strength | Flashing: low signal strength;<br>solid: high signal strength.                                           |
|    | <b>Red</b><br>Alarm               | Red LED solid — alarm active;<br>siren and visual signaling activated when equipped.                     |
|  | <b>Yellow</b><br>Fault            | Yellow LED solid — active fault (e.g., sensor removed); communication maintained with the control panel. |